# If a warning light turns on or a warning buzzer sounds...

**Calmly perform the following actions if any of the warning lights turn on or flash. If a light turns on or flashes, but then turns off, this does not necessarily indicate a malfunction in the system.**

## Stop the vehicle immediately. Continuing to drive the vehicle may be dangerous.

The following warning indicates a possible problem in the brake system. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

| Warning light | Warning light/Details |
|---|---|
|   (U.S.A.)<br> (Canada) | **Brake system warning light (warning buzzer)*** <br>• Low brake fluid<br>• Malfunction in the brake system<br>This light also comes on when the parking brake is not released. If the light turns off after the parking brake is fully released, the system is operating normally. |

*: Parking brake engaged warning buzzer:

→P. 463

## Stop the vehicle immediately.

The following warning indicates the possibility of damage to the vehicle that may lead to an accident. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

| Warning light | Warning light/Details |
|---|---|
|  | **Charging system warning light**<br>Indicates a malfunction in the vehicle's charging system. |

## Have the vehicle inspected by your Lexus dealer immediately.

Failing to investigate the cause of the following warnings may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer immediately.

| Warning light | Warning light/Details |
|---|---|
|  (U.S.A.)<br> (Canada) | **Malfunction indicator lamp**<br>Malfunction in:<br>• The electronic engine control system;<br>• The electronic throttle control system; or<br>• The transmission control system. |
|  | **SRS warning light**<br>Malfunction in:<br>• The SRS airbag system;<br>• Front passenger occupant classification system; or<br>• The seat belt pretensioner system. |

| Warning light | Warning light/Details |
|---|---|
|  (U.S.A.)<br> (Canada) | **ABS warning light**<br>Malfunction in:<br>• The ABS; or<br>• The brake assist system. |
|  | **ECB*1/VSC warning light**<br>Malfunction in:<br>• The electronically controlled brake system; or<br>• The VSC. |
|  | **Electric power steering system warning light**<br>Malfunction in the EPS. |
|  | **Pre-collision system warning light (if equipped)**<br>Malfunction in the pre-collision system. |

*1: Electronically Controlled Brake System

## Have the malfunction repaired immediately.

After taking the specified steps to correct the suspected problem, check that the warning light turns off.

| Warning light | Warning light/Details | Correction procedure |
|---|---|---|
|  | **Open door warning light (warning buzzer)*2**<br>A door or the trunk is not fully closed. | Check that all doors and the trunk are closed. |
|  | **Low fuel level warning light**<br>Remaining fuel (Approximately 2.6 gal. [10 L, 2.2 Imp.gal.] or less) | Refuel the vehicle. |

| Warning light | Warning light/Details | Correction procedure |
|---|---|---|
|  | **Driver’s seat belt reminder light (warning buzzer)*3**<br>Warns the driver to fasten his/her seat belt. | Fasten the seat belt. |
|  | **Front passenger’s seat belt reminder light (warning buzzer)*3**<br>Warns the front passenger to fasten his/her seat belt. | Fasten the seat belt. |
|  | **Tire pressure warning light** | |
| | When the light comes on:<br>Low tire inflation pressure. | Adjust the tire inflation pressure. |
| | When the light comes on after blinking for 1 minute:<br>Malfunction in the tire pressure warning system. | Have the system checked by your Lexus dealer. |
|  | **Master warning light**<br>A buzzer sounds and the warning light comes on and flashes to indicate that the master warning system has detected a malfunction. | Take appropriate action in accordance with the message displayed on the multi-information display. |

*2: Open door warning buzzer:

→P. 462

*3: Driver's and front passenger’s seat belt reminder buzzer:

The driver’s and front passenger’s seat belts reminder sounds to alert the driver and front passenger that his or her seat belt is not fastened. The buzzer sounds intermittently for 10 seconds after the vehicle has reached a speed of at lest 12 mph (20 km/h). Then, if the seat belt is still unfastened, the buzzer will sound in a different tone for 20 more seconds.

### If the malfunction indicator lamp comes on while driving

First check the following:

- Is your vehicle low on gas?
  If it is, refuel the vehicle immediately.
- Is the fuel tank cap loose?
  If it is, tighten it securely.

The light will go off after taking several driving trips.
If the light does not go off even after several trips, contact your Lexus dealer as soon as possible.

### SRS warning light

This warning light system monitors the following:

- The airbag sensor assembly
- Front airbag sensors
- The curtain shield airbag sensors
- The side and curtain shield airbag sensor assemblies
- The driver's seat position sensor
- Driver's seat belt buckle switch
- The front passenger occupant classification ECU
- The pressure sensor
- The belt tension sensor
- AIRBAG ON and AIRBAG OFF indicator lights
- Front passenger's seat belt buckle switch
- The inflators
- The warning light
- The interconnecting wiring and power sources

### Front passenger detection sensor and passenger seat belt reminder

If luggage is placed on the front passenger seat, the front passenger detection sensor may cause the warning light to flash, even if a passenger is not sitting in the seat.

■ **When the tire pressure warning light comes on**

Check the tire inflation pressure and adjust to the appropriate level. Pushing the tire pressure warning reset switch does not turn off the tire pressure warning light.

■ **The tire pressure warning light may turn on due to natural causes**

The tire pressure warning light may turn on due to natural causes such as natural air leaks or tire inflation pressure changes caused by temperature. In this case, adjusting the tire inflation pressure will turn off the warning light.

**⚠ CAUTION**

■ **If the tire pressure warning light comes on**

Be sure to observe the following precautions. Failure to do so could cause loss of vehicle control and result in death or serious injury.

- Vehicles with run-flat tires:
  - Decelerate to the lowest appropriate speed as soon as possible. Do not drive over 55 mph (90 km/h).
  - Check and adjust the tire inflation pressure immediately.
  - If the tire pressure warning light comes on even after tire inflation pressure adjustment, it is probable that you have a flat tire. Have the tire replaced by the nearest Lexus dealer.
  - Avoid abrupt maneuvering and braking. If the vehicle tires deteriorate, you could lose control of the steering wheel or the brakes.
- Vehicles with standard tires:
  - Stop your vehicle in a safe place as soon as possible. Adjust the tire inflation pressure immediately.
  - If the tire pressure warning light comes on even after tire inflation pressure adjustment, it is probable that you have a flat tire. Check the tires. If the tire is flat, change to the spare tire and have the flat tire repaired by the nearest Lexus dealer.
  - Avoid abrupt maneuvering and braking. If the vehicle tires deteriorate, you could lose control of the steering wheel or the brakes.

■ **If a blowout or sudden air leakage should occur**

The tire pressure warning system may not activate immediately.

# If a warning message is displayed

**If a warning is shown on the multi-information display, stay calm and perform the following actions:**




1 Multi-information display

2 Master warning light

The master warning light also comes on or flashes in order to indicate that a message is currently being displayed on the multi-information display.

If any of the warning light turns on again after performing the following actions, contact your Lexus dealer.

## Stop the vehicle immediately.

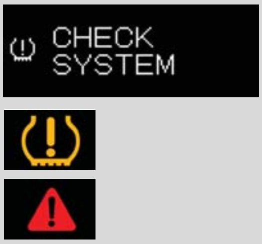
A buzzer sounds and a warning message is shown on the multi-information display. The following warnings indicate the possibility of damage to the vehicle that may lead to an accident. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

| Warning message | Details |
|---|---|
|   (Flashing) | **Abnormal engine oil pressure.**<br>The warning light may turn on if the engine oil pressure is too low. |

## Have the vehicle inspected by your Lexus dealer immediately.

A buzzer sounds and a warning message is shown on the multi-information display. Failing to investigate the cause of the following warnings may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer immediately.

| Warning message | Details |
|---|---|
|   (4WD models) | **Malfunction in the 4WD system.** |
|   | **Malfunction in the automatic headlight leveling system.** |

| Warning message | Details |
|---|---|
|   | **Malfunction in the rear lights system.** |
|   | **Malfunction in the tire pressure warning system.**<br>The tire pressure warning light will blink for 1 minute and then stay on. |
|   (Flashing) | **Malfunction in the steering lock system.** |
|   (GS430, if equipped) | **Malfunction in the active stabilizer suspension system.** |

| Warning message | Details |
|---|---|
| CHECK PCS<br>PCS<br>(If equipped) | **Malfunction in the PCS.** |
| CHECK SONAR<br>(If equipped) | **Intuitive parking assist malfunction.**<br>The malfunctioning sensor is shown flashing on the display. (The illustration shows malfunctioning left front sensor.) |
| CHECK CRUISE SYSTEM<br>CRUISE (Flashing)<br>(If equipped) | **Malfunction in the radar cruise control system.**<br>Stop the vehicle in a safe place. Switch the engine switch to “OFF” and then to “IG-ON” mode again to reset the cruise control system. |

### If the tire pressure warning system is inoperative

The system will be disabled in the following conditions:

(When the condition becomes normal, the system will work properly.)

- If tires not equipped with tire pressure warning valves and transmitters are used.
- If the ID code on the tire pressure warning valves and transmitters is not registered in the tire pressure warning computer.
- If the tire inflation pressure is more than 73 psi (500 kPa, 5.1 kgf/cm$^2$ or bar).

The system may be disabled in the following conditions:

(When the condition becomes normal, the system will work properly.)

- If electronic devices or facilities using similar radio wave frequencies are nearby.
- If a radio set at similar frequencies is in use in the vehicle.
- If a window tint that affects the radio wave signals is installed.
- If the tire pressure warning select switch is set to a different tire setting.
- If there is a lot of snow or ice on the vehicle, in particular around the wheels or wheel housings.
- If non-genuine Lexus wheels are used.
- If tire chains are used.

### If the tire pressure warning light comes on after blinking for 1 minute frequently

If the tire pressure warning light comes on after blinking for 1 minute frequently when the engine switch is turned to “IG-ON” mode, have it checked by your Lexus dealer.

NOTICE

### Precaution when installing a different tire

When a tire of a different specification or maker is installed, the tire pressure warning system may not operate properly.

## Have the vehicle inspected by your Lexus dealer immediately.

Failing to investigate the cause of the following warning may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer immediately.

| Warning message | Details |
|---|---|
| CHECK VSC<br>CHECK ECB<br>(GS430)<br>CHECK VSC<br>(GS350)<br> | **Malfunction in the TRAC, VSC or hill-start assist control system.**<br>In some cases, only "CHECK VSC" or "CHECK ECB*" is displayed. |
| CHECK VSC<br>CHECK ECB<br>(GS430)<br>CHECK VSC<br>(GS350)<br><br> (U.S.A)<br> (Canada) | **Malfunction in the ABS or BA.**<br>In some cases, only "CHECK VSC" or "CHECK ECB*" is displayed. |

| Warning message | Details |
|---|---|
|    (GS430) | **Malfunction in the VGRS.** |
|  (Steering guide symbol and arrows are flashing) (GS430) | **The steering sensor cable is broken and signals cannot be received.** |

*: Electronically Controlled Brake System

## Have the malfunction repaired immediately.

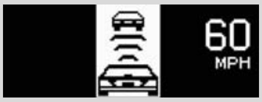
A buzzer sounds and a warning message is shown on the multi-information display. After taking the specified steps to correct the suspected problem, check that the warning message turns off.

| Warning message | Details | Correction procedure |
|---|---|---|
|     | **One or more of the doors is not fully closed.** The system also indicates which doors are not fully closed.  flashes and a buzzer sounds to indicate that one or more of the doors is not fully closed (with the vehicle having reached a speed of 3 mph [5 km/h]). | Make sure that all of the doors are closed. |
|  | **The hood is not fully closed.**  flashes and a buzzer sounds to indicate that hood is not fully closed (with the vehicle having reached a speed of 3 mph [5 km/h]). | Close the hood. |

| Warning message | Details | Correction procedure |
|---|---|---|
| TRUNK OPEN | **The trunk is not fully closed.**<br>flashes and a buzzer sounds to indicate that trunk is not fully closed (with the vehicle having reached a speed of 3 mph [5 km/h]). | Close the trunk. |
| MOONROOF OPEN<br>(Flashing) | **The moon roof is not fully closed (with the engine switch "OFF" and the driver's door opened).** | Close the moon roof. |
| PARK BRAKE<br>(Flashing) | **The parking brake is still engaged (with the vehicle having reached a speed of more than 3 mph [5 km/h]).** | Release the parking brake. |
| LOW WASHER FLUID | **The washer fluid level is low.** | Add washer fluid. |
| LOW ENGINE OIL LEVEL | **The engine oil level is low.** | Check the engine oil level, and add if necessary. |

| Warning message | Details | Correction procedure |
|---|---|---|
|   (U.S.A. only) | The engine oil is scheduled to be changed.<br>Comes on approximately 4500 miles (7200 km) after the engine oil is changed. (The indicator will not work properly unless the oil maintenance data has been reset). | Check the engine oil, and change if necessary. |
|   (U.S.A. only) | The engine oil should be changed.<br>Comes on approximately 5000 miles (8000 km) after the engine oil is changed (and the oil maintenance data has been reset). | Check and change the engine oil. |
|   | Low tire inflation pressure. | Check the tire inflation pressure, and adjust to the appropriate level. |

| Warning message | Details | Correction procedure |
|---|---|---|
| PCS NOT AVAILABLE NOW<br>PCS (Flashing)<br>(If equipped) | **The PCS is not currently functional.** | Clean the grille and the sensor.<br>This message appears when the pre-collision system is hot. In this case, wait until the system cools down. |
| CLEAN SONAR<br>(If equipped) | **Intuitive parking assist is dirty or covered with ice.**<br>(The illustration shows something on the left front sensor.) | Clean the sensor. |
| CLEAN RADAR SENSOR<br>CRUISE (Flashing)<br>(If equipped) | **The radar cruise control sensor is dirty or covered with ice.** | Clean the sensor. |
| CRUISE NOT AVAILABLE<br>CRUISE (Flashing)<br>(If equipped) | **The radar cruise control system is unable to judge vehicle-to-vehicle distance.** | • Switch the mode select to either the normal or power mode.<br>• If the windshield wipers are on, turn them off or set them to either the intermittent or the slow mode. |

| Warning message | Details | Correction procedure |
|---|---|---|
|  (Flashing) (If equipped) | **Your vehicle is nearing the vehicle ahead (in radar cruise mode).** | Slow the vehicle by applying the brakes. |
|   (Flashing) | **The transmission is out of “P” when attempting to start the engine.** | Shift the shift lever to “P” before pressing the engine switch. |

- **After changing the engine oil (U.S.A. only)**

  Make sure to reset the oil maintenance data. (→P. 382)

- **Approach warning message**

  In the following instances, there is the possibility that the approach warning will not activate even when the vehicle-to-vehicle distance decreases.

  - When your vehicle and the vehicle ahead are traveling at the same speed or the vehicle ahead is traveling more quickly than your vehicle.
  - When the vehicle ahead is traveling at a very low speed.
  - Immediately after cruise control speed is set.
  - At the instant the accelerator pedal is depressed.

**CAUTION**

■ **Maintenance of the tires**

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label (tire and load information label). (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label [tire and load information label], you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS-tire pressure warning system) that illuminates a low tire pressure telltale (tire pressure warning light) when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale (tire pressure warning light) illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS (tire pressure warning system) is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale (tire pressure warning light).

Your vehicle has also been equipped with a TPMS (tire pressure warning system) malfunction indicator to indicate when the system is not operating properly. The TPMS (tire pressure warning system) malfunction indicator is combined with the low tire pressure telltale (tire pressure warning light). When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended.

TPMS (tire pressure warning system) malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS (tire pressure warning system) from functioning properly. Always check the TPMS (tire pressure warning system) malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS (tire pressure warning system) to continue to function properly.

## Other messages

If the following message is displayed, take appropriate action and confirm that the message has disappeared.

| Message | Details |
|---|---|
|    (Flashing) | **The driver's door is opened when the transmission is out of "P" with the engine on.**<br>Shift the shift lever to "P". |
|  (If equipped) | **Calibrate the neutral position of the steering wheel.** (→P. 148) |

## Have the malfunction repaired immediately.

After taking the specified steps to correct the suspected problem, check that the warning massage and light turn off.

| Interior buzzer | Exterior buzzer | Warning message | Details | Correction procedure |
|---|---|---|---|---|
| Once | — |  (Comes on for 8 seconds.)  (Flashing) | The electronic key is not detected when attempting to start the engine. | Confirm the location of the electronic key. |
| Once | 3 times |   (Flashing) | An open door other than the driver's door is closed while the electronic key is outside the detection range and the engine switch is in "ACC" or "IG-ON" mode. | Confirm the location of the electronic key. |

| Interior buzzer | Exterior buzzer | Warning message | Details | Correction procedure |
|---|---|---|---|---|
| Once | 3 times | KEY IS NOT DETECTED<br>(Flashing) | An open door other than the driver's door is closed while the electronic key is outside the detection range and the engine switch is in "ACC" or "IG-ON" mode with the shift lever in "P". | Turn the engine switch "OFF" or confirm the location of the electronic key. |
| Continuous | Continuous | SHIFT TO P RANGE<br>KEY IS NOT DETECTED<br>(Displayed alternately)<br>(Flashing) | An open door other than the driver's door is closed while the electronic key is outside the detection range and the engine switch is in "ACC" or "IG-ON" mode with the shift lever not in "P". | • Shift the shift lever to "P".<br>• Confirm the location of the electronic key. |
| Once | — | LOW KEY BATTERY<br>(Flashing) | The electronic key battery is low. | Replace the battery. (→P. 411) |

| Interior buzzer | Exterior buzzer | Warning message | Details | Correction procedure |
|---|---|---|---|---|
| — | — | WHEN STARTING THE ENGINE, DEPRESS THE BRAKE PEDAL | An open door has been closed and the engine switch has been turned twice to the "ACC" mode from "OFF" mode. | Press the engine switch while applying the brakes. |
| — | — | S/T IS NOT UNLOCKED  (Flashing) | The steering lock has not released within 3 seconds of pressing the engine switch. The engine switch indicator will flash green for 15 seconds. | Press the engine switch again while turning the steering wheel with the brake pedal depressed. |

# If you have a flat tire (Vehicles with run-flat tires)

**Take your vehicle to the nearest Lexus dealer or authorized tire dealer as soon as possible.**

## Run-flat tires (A "RFT" or "DSST" mark is molded on the sidewall)




You can continue driving a vehicle with run-flat tires even if any tire goes flat.

It is able to run for a maximum of 100 miles (160 km) at a speed below 55 mph (90 km/h) after the tire pressure warning light comes on. (→P. 452)

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**In some condition (such as at high temperatures)**

You can not continue driving for up to 100 miles (160 km).

**If you cannot distinguish between the standard tires and run-flat tires**

Consult your Lexus dealer.

**For the detailed information on run-flat tires**

See the tire warranty book.

### NOTICE

**When replacing the tires**

- Have the tires replaced by the nearest Lexus dealer or authorized tire dealer. The tire pressure warning valves and transmitters will be affected by the installation or removal of tires.
- Replace the grommets for the tire pressure warning valves and transmitters as well.

**To avoid damaging the tire pressure warning valves and transmitters**

Do not use liquid sealants on flat tires.

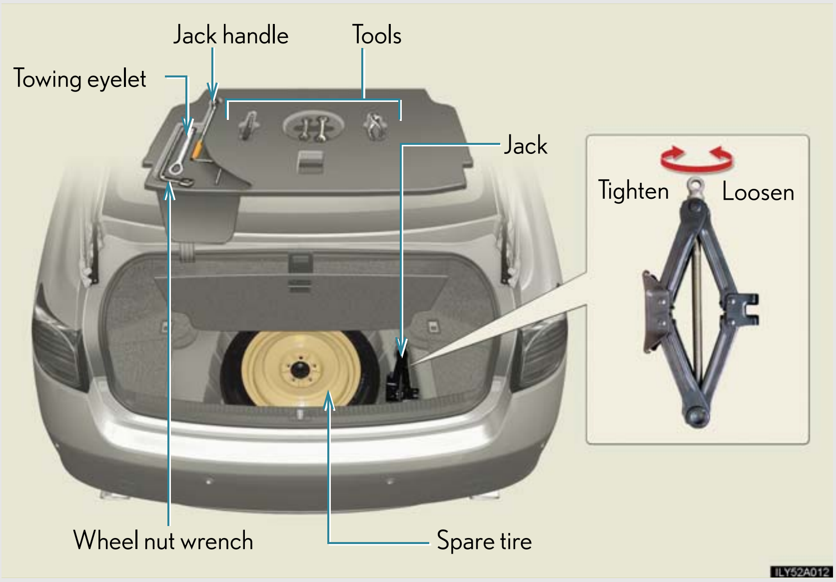
# If you have a flat tire (Vehicles with standard tires)

Remove the flat tire and replace it with the spare provided.

## Before jacking up the vehicle

- Stop the vehicle on a hard, flat surface.
- Set the parking brake.
- Shift the shift lever to "P".
- Stop the engine.
- Turn on the emergency flashers.

## Location of the spare tire, jack and tools



## Compact spare tire

The compact tire saves space in your luggage compartment, and its lighter weight helps to enhance fuel economy and permits easier installation in case of a flat tire.




The compact spare tire is designed for temporary emergency use only.

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### The compact spare tire

- The compact spare tire is identified by the label “TEMPORARY USE ONLY” on the tire sidewall.
  Use the compact spare tire temporarily only in an emergency.
- Make sure to check the tire inflation pressure of the compact spare tire. (→P. 505)

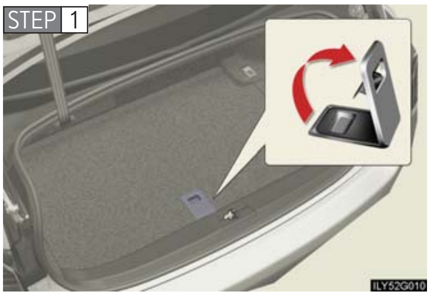
### Tread life

The compact spare tire can be used many times, if necessary. It has tread life of up to 3000 miles (4800 km) depending on road conditions and your driving habits. When treadwear indicators appear on the tire, replace the tire. (→P. 391)

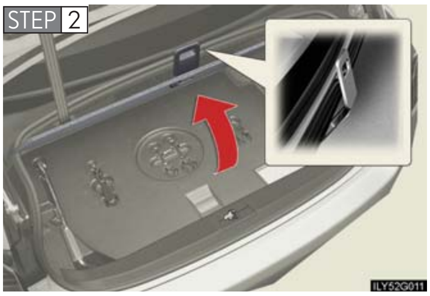
### When using the compact spare tire

As the spare tire is not equipped with the tire pressure warning valve and transmitter, low inflation pressure of the spare tire will not be warned. Also, if you replace the compact spare tire after the tire pressure warning light comes on, the light remains on.

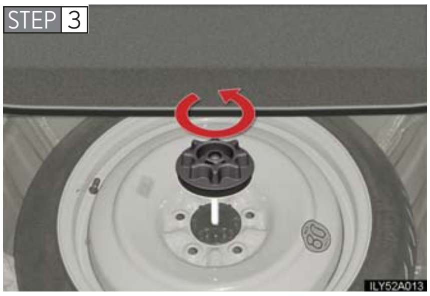
## Taking out the spare tire




Lift up the hook of the panel on the trunk floor.




Secure the panel using the hook provided.




Loosen the center fastener that secures the spare tire.

## Replacing a flat tire

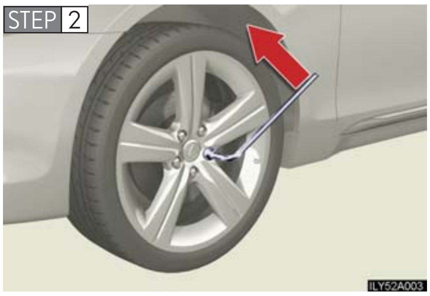
STEP 1




Chock the tires.

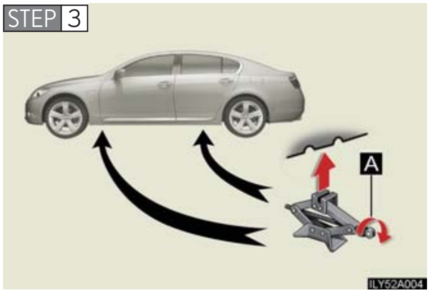
| Flat tire | | Wheel chock positions |
|---|---|---|
| Front | Left-hand side | Behind the rear right-hand side tire |
| | Right-hand side | Behind the rear left-hand side tire |
| Rear | Left-hand side | In front of the front right-hand side tire |
| | Right-hand side | In front of the front left-hand side tire |

STEP 2




Slightly loosen the wheel nuts (one turn).

STEP 3




Turn the tire jack portion "A" by hand until the notch of the jack is in contact with the jack point.

STEP 4




Raise the vehicle until the tire is slightly raised off the ground.

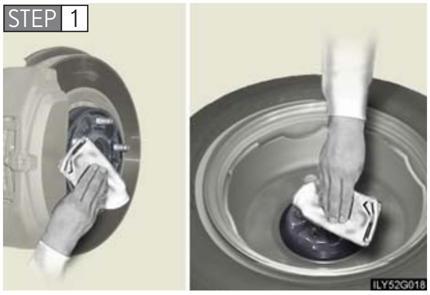
STEP 5




Remove all the wheel nuts and the tire.

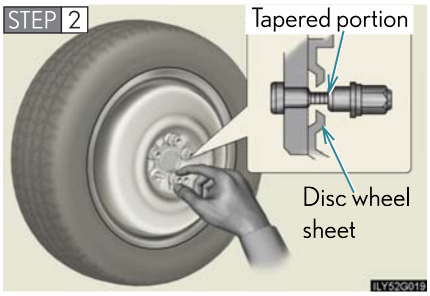
When resting the tire on the ground, place the tire so that the wheel design faces up to avoid scratching the wheel surface.

## Installing the spare tire




Remove any dirt or foreign matter from the wheel contact surface.

If foreign matter is on the wheel contact surface, the wheel nuts may loosen while the vehicle is in motion, and the tire may come off the vehicle.



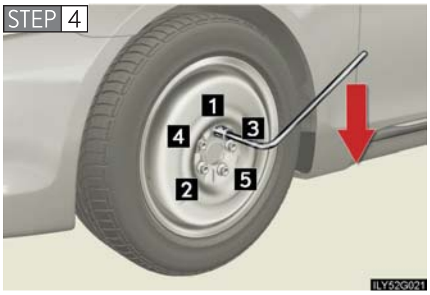

Install the spare tire and loosely tighten each nut by hand to approximately the same amount.

Tighten the wheel nuts until the tapered portion comes into loose contact with the disc wheel sheet.




Lower the vehicle.

STEP 4




Firmly tighten each nut two or three times in the order shown in the illustration.

**Tightening torque:**
76 ft•lbf (103 N•m, 10.5 kgf•m)

STEP 5 Stow the flat tire, tire jack and all tools.

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n **If you have a flat rear tire on a road covered with snow or ice**

Install the compact spare tire on the front of the vehicle. Perform the following steps and fit tire chains to the rear tires.

STEP 1 Replace a front tire with the compact spare tire.

STEP 2 Replace the flat rear tire with the tire removed from the front of the vehicle.

STEP 3 Fit tire chains to the rear tires.

n **After completing the tire change**

The tire pressure warning system must be reset. (→P. 392)

## CAUTION

**Using the tire jack**

Improper use of the tire jack may lead to death or injuries due to the vehicle suddenly falling off the jack.

- Do not use the tire jack for any purpose other than replacing tires or installing and removing tire chains.
- Only use the tire jack that comes with this vehicle for replacing a flat tire.
  Do not use it on other vehicles, and do not use other tire jacks for replacing tires on this vehicle.
- Always check that the tire jack is securely set to the jack point.
- Do not raise the vehicle while someone is in it.
- When raising the vehicle, do not put an object on or under the jack.
- Do not raise the vehicle to a height greater than that required to replace the tire.
- Use a jack stand if it is necessary to get under the vehicle.
- Do not put any part of your body under the vehicle supported by a jack.
- Do not start or run the engine while your vehicle is supported by the jack.

Take particular care when lowering the vehicle to ensure that no one working on or near the vehicle may be injured.

**Replacing a flat tire**

Observe the following precautions to reduce the risk of injury.

- Never use oil or grease on the wheel bolts or wheel nuts.
  The oil or grease can cause the wheel nuts to loosen, causing a serious accident. Remove any oil or grease on the wheel bolts or wheel nuts.
- Have the wheel nuts tightened with a torque wrench to 76 ft•lbf (103 N•m, 10.5 kgf•m) as soon as possible after changing wheels.
  Failure to follow these precautions could cause the nuts to loosen and the wheels may fall off, which could lead to an accident causing death or serious injury.

**CAUTION**

**When using the spare tire**

- Remember that your spare tire is specifically designed for use with your vehicle. Do not use your spare tire on another vehicle.
- Do not use two spare tires simultaneously.
- Replace the spare tire with a standard tire as soon as possible.
- Avoid sudden acceleration, deceleration and braking, as well as sharp cornering.

**Speed limit when using the compact spare tire**

Do not drive at speeds in excess of 50 mph (80 km/h) when a compact spare tire is installed on the vehicle.

The compact spare tire is not designed for driving at high speeds. Failing to observe this precaution may lead to an accident.

NOTICE

■ **Do not drive the vehicle with a flat tire**

Do not continue driving with a flat tire.
Driving even a short distance with a flat tire can damage the tire and the wheel beyond repair.

■ **Be careful when driving over bumps with the compact spare tire installed on the vehicle**

The vehicle becomes lower when driving with the compact spare tire compared to when driving with standard tires. Be careful when driving over uneven road surfaces.

■ **Driving with tire chains and the compact spare tire**

Do not fit tire chains to the compact spare tire.
Tire chains may damage the vehicle body and adversely affect driving performance.

■ **When replacing the tires**

- When removing or fitting the wheels, tires or the tire pressure warning valve and transmitter, contact your Lexus dealer as the tire pressure warning valve and transmitter may be damaged if not handled correctly.
- Replace the grommets for the tire pressure warning valves and transmitters as well.

■ **To avoid damaging the tire pressure warning valves and transmitters**

Do not use liquid sealants on flat tires.

# If the engine will not start

**If the engine will not start even though correct starting procedures are being followed (→P. 97), consider each of the following points.**

## ■ The engine will not start even when the starter motor operates normally.

One of the following may be the cause of the problem.

- There may not be sufficient fuel in the vehicle's tank.
  Add fuel to the vehicle.
- The engine may be flooded.
  Try to restart the engine once more following correct starting procedures.(→P. 97)
- There may be a malfunction in the engine immobilizer system. (→P. 52)

## ■ The starter motor turns over slowly, the interior lights and headlights are dim, or the horn does not sound or sounds at a low volume

One of the following may be the cause of the problem.

- The battery may be discharged. (→P. 492)
- The battery terminal connections may be loose or corroded.

## ■ The starter motor does not turn over, the interior lights and headlights do not turn on, or the horn does not sound

One of the following may be the cause of the problem.

- One or both of the battery terminals may be disconnected.
- The battery may be discharged. (→P. 492)

# If the shift lever cannot be shifted from P

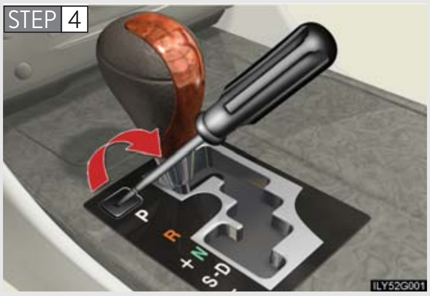
**If the shift lever cannot be shifted with your foot on the brake, there may be a problem with the shift lock system (a system to prevent accidental operation of the shift lever). Have the vehicle inspected by your Lexus dealer immediately.**
**The following steps may be used as an emergency measure to ensure that the shift lever can be shifted.**

STEP 1 Set the parking brake.

STEP 2 Turn the engine switch to the "ACC" mode.

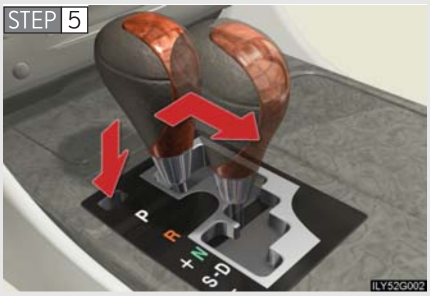
STEP 3 Depress the brake pedal.

STEP 4




Pry the cover up with a flathead screwdriver or equivalent.

STEP 5




Press the shift lock override button.

The shift lever can be shifted while the button is pressed.

# If you lose your keys

New genuine Lexus keys can be made by your Lexus dealer using one of the other keys and the key number stamped on your key number plate.

# If the electronic key does not operate properly

If communication between the electronic key and vehicle is interrupted (→P. 7) or the electronic key cannot be used because the battery is depleted, the smart access system with push-button start and wireless remote control cannot be used. In such cases, the doors and trunk can be opened or the engine can be started by following the procedure below.

## Locking and unlocking the doors, unlocking the trunk and key linked functions

▶ Doors




Using the mechanical key in order to perform the following operations:

1. Locks all doors
2. Closes the windows/moon roof (turn and hold)
3. Unlocks the door

   Turning the key rearward unlocks the driver's door. Turning the key once again unlocks the other doors.
4. Opens the windows/moon roof (turn and hold)

▶ Trunk




Turn the mechanical key clockwise to open.

## Changing engine switch modes and starting the engine

STEP 1 Put the shift lever in “P” and apply the brakes.

STEP 2



Touch the Lexus emblem side of the electronic key to the engine switch.

An alarm will sound to indicate that the start function cannot detect the electronic key that is touched to engine switch if any of the doors is opened and closed while the key is touched to the switch.

STEP 3 To change engine switch modes: Within 5 seconds of the buzzer sounding, release the brake pedal and press the engine switch. Modes can be changed each time the switch is pressed. (→P. 97)
To start the engine: Press the engine switch within 5 seconds after the buzzer sounds, keep the brake pedal depressed.

In the event that the engine still cannot be operated, contact your Lexus dealer.

**Stopping the engine**

Shift the shift lever to P and press the engine switch as you normally do when stopping the engine

**Replacing the key battery**

As the above procedure is the temporary measure, it is recommended that the electronic key battery be replaced immediately when the battery depletes. (→P. 411)

# If the vehicle battery is discharged

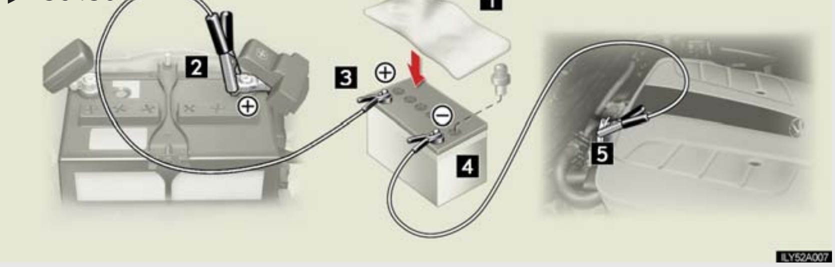
**The following procedures may be used to start the engine if the vehicle's battery is discharged.**
**You can call your Lexus dealer, Roadside Assistance or Lexus Customer Service Assistance.**

If you have a set of jumper (or booster) cables and a second vehicle with a 12-volt battery, you can jump start your Lexus following the steps below.

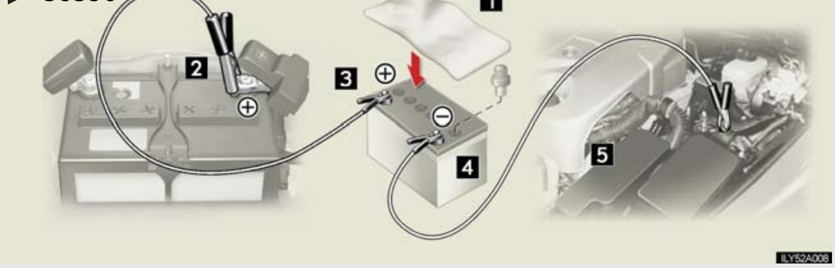
STEP 1 GS350 only: Remove the engine compartment covers.
(→P. 378)

STEP 2 Connecting the jumper cables.

▶ GS430




▶ GS350




1 If required, remove all vent plugs from the booster battery. Lay a cloth over the open vents on the booster battery. (This helps reduce the explosion hazard, personal injuries and burns.)

2 Positive (+) battery terminal on your vehicle.

3 Positive (+) battery terminal on the second vehicle.

4 Negative (-) battery terminal on the second vehicle.

5 Negative (-) battery terminal or your vehicle.

STEP 3 Start the engine of the second vehicle. Increase the engine speed slightly and maintain at that level for approximately five minutes to recharge the battery of your vehicle.

STEP 4 Open and close any of the doors with the engine switch “OFF”.

STEP 5 Maintain the engine speed on the second vehicle and turn the engine switch to the “IG-ON” mode, then start the vehicle’s engine.

STEP 6 Once the vehicle’s engine has started, remove the jumper cables in the exact reverse order in which they were connected.

Once the engine starts, have the vehicle checked at your Lexus dealer as soon as possible.

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## Avoiding a discharged battery

- Turn off the headlights and the audio system while the engine is turned off.
- Turn off any unnecessary electrical components when the vehicle is running at a low speed for an extended period, such as in heavy traffic, etc.

## When the battery is removed or discharged

The following systems must be initialized.

- Power windows (→P. 43)
- Variable gear ratio steering (→P. 159)
- Tire pressure warning system (→P. 393)
- Intuitive parking assist (→P. 136)

## CAUTION

**Avoiding battery fires or explosions**

Observe the following precautions to prevent accidentally igniting the flammable gas that may be emitted from the battery.

- Make sure the jumper cable is connected to the correct terminal and that it is not unintentionally in contact with any part other than the intended terminal.
- Do not allow the jumper cables to come into contact with the "+" and "-" terminals.
- Do not allow open flame or use matches, cigarette lighters or smoke near the battery.

**Battery precautions**

The battery contains poisonous and corrosive acidic electrolyte, while related parts contain lead and lead compounds. Observe the following precautions when handling the battery:

- When working with the battery, always wear safety glasses and take care not to allow any battery fluids (acid) to come into contact with skin, clothing or the vehicle body.
- Do not lean over the battery.
- In the event that battery fluid comes into contact with the skin or eyes, immediately wash the affected area with water and seek medical attention.
  Place a wet sponge or cloth over the affected area until medical attention can be received.
- Always wash your hands after handling the battery support, terminals, and other battery-related parts.
- Do not allow children near the battery.

NOTICE

■ **To prevent damaging the vehicle**

Do not pull- or push-start the vehicle, because the three-way catalytic converter may overheat and become a fire hazard.

■ **When handling jumper cables**

Be careful that the jumper cables do not become tangled in the cooling fan or any of the belts when connecting or disconnecting them.

# If your vehicle overheats

**If your engine overheats:**

STEP 1 Stop the vehicle in a safe place and turn off the automatic air conditioning system.

STEP 2 Check to see if steam is coming out from under the hood.

If you see steam:

Stop the engine and carefully lift the hood.

If you do not see steam:

Leave the engine running and carefully lift the hood.

STEP 3 Remove the engine compartment cover. (→P. 378)

STEP 4 Check to see if the cooling fan is operating.

If the fan is operating:

Wait until the engine coolant temperature gauge begins to fall and then stop the engine.

If the fan is not operating:

Stop the engine immediately and call your local Lexus dealer.

STEP 5




After the engine has cooled down sufficiently, check the coolant level and inspect the radiator core (radiator) for any leaks.

STEP 6




Add coolant if required.

Water can be used in an emergency measure if coolant is unavailable. (→P. 502)

Have the vehicle checked at your nearest Lexus dealer as soon as possible.

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## Overheating

In the following situations, your vehicle may be overheating.

- The engine coolant temperature gauge enters the red zone or a loss of power is experienced.
- Steam is coming from under the hood.

## CAUTION

### To prevent an accident or injury when inspecting under the hood of your vehicle

- Keep hands and clothing away from the fan and engine drive belt while the engine is running.
- Do not loosen the radiator cap while the engine and radiator are hot.
  Serious injury, such as burns, may result from hot coolant and steam released under pressure.

NOTICE

■ **When adding engine coolant**

Wait until the engine has cooled down before adding engine coolant.
When adding coolant, do so slowly. Adding cool coolant to a hot engine too quickly can cause damage to the engine.

# If the vehicle becomes stuck

**Carry out the following procedures if the tires spin or the vehicle becomes stuck in mud, dirt, or snow.**

STEP 1 Stop the engine. Set the parking brake and shift the shift lever in "P".

STEP 2 Remove the mud, snow, or sand from around the stuck tire.

STEP 3 Place wood, stones or some other material to help provide traction under the tires.

STEP 4 Restart the engine.

STEP 5 Shift the shift lever to the "D" or "R" position and carefully apply the accelerator to free the vehicle.
Turn off TRAC/VSC if these functions are hampering your attempts to free the vehicle. (→ P. 161)

## CAUTION

**When attempting to free a stuck vehicle**

If you choose to rock the vehicle back and forth to free it, make sure the surrounding area is clear, to avoid striking other vehicles, objects or persons. The vehicle may also lunge forward or lunge back suddenly as it becomes free. Use extreme caution.

**When shifting the shift lever**

Be careful not to shift the shift lever with the accelerator pedal depressed.
This may lead to unexpected rapid acceleration of the vehicle that may cause an accident and result in death or serious injury.

## NOTICE

**To avoid damaging the transmission and other components**

- Avoid spinning the wheels and do not rev the engine.
- If the vehicle remains stuck after trying these procedures, the vehicle may require towing to be freed.